

Math 212
Quiz 05

W 31 Aug 2016

Your name: _____

Exercise

(2 pt) Consider the function $f : \mathbf{R} \rightarrow \mathbf{R}$ given by

$$f(x) = 2x^4.$$

State the level sets of f with the values -2 , 0 , and 2 . *Hint:* Sketch a graph of f . You may use the notation $\text{LS}_f(c)$ to denote the level set of f with value c . You should state three such sets, corresponding to $c = -2, 0, 2$.